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II. AMENDMENT TO THE CLAIMS

▪ Amendments Made Herein and Summary of Status of Claims

- Please amend claims 24-25 and 37-39, without prejudice.

Claims 1-19, 21-39, and 50-54 exist after the amendment below is entered.

▪ Statement with Respect to Scope of Amended and Non-Amended Claims

Revisions to the claim set is made in order to streamline prosecution of this case in order to obtain early allowance of embodiments that are presently anticipated to be of commercial significance and are not made for a purpose of patentability. Any amendment, cancellation, withdrawal or addition made herein with respect to the claims should not be construed in any manner as indicating Applicants' surrender of any subject matter of the application, or surrender of any equivalent to any element asserted in one or more claims. Any narrowing which may be evinced with respect to subject matter covered by the claims as a whole, or by one or more claims of the appended claims whether amended, re-represented, or new, when compared to claims previously in the application, should not be interpreted as indicating that the Applicants have generally disclaimed the territory between the original claimed subject matter and the amended claimed subject matter. Amended claims elements are to be construed to include substantial equivalents known to those of ordinary skill in the art. Applicants assert that any amendments transacted herein are made without prejudice and reserve all rights to prosecute any canceled claims, and claim structures preceding any amendment to a particular claim, and other disclosed (but not presently claimed) embodiments in the application, in future continuation applications, divisional applications, continuation-in-part applications, continuing prosecution applications,

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requests for continuing examination, re-examination applications and any other application claiming priority to the present application.

**COMPLETE LIST OF CLAIMS THAT ARE OR HAVE BEEN BEFORE THE OFFICE
AFTER ENTRANCE OF THE AMENDMENTS MADE HEREIN**

The following claims constitute a complete list of claims that are or have been before the office after entrance of the amendments made herein. Amendments to the claims are indicated in accord with Revised 37 C.F.R. §1.121. In accord with such regulation, the listing of claims set forth below replaces all prior versions, and listings, of claims in the application:

**—CLAIMS AS PENDING IN THE APPLICATION WITH AMENDMENTS MADE HEREIN
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1. **(PREVIOUSLY PRESENTED)** A process for preparing a catalyst composite useful for alkylaromatic unversion, the said process comprising
contacting an intermediate pore metallosilicate with an organosilicon compound
in a solvent for a specific duration and then recovering the solvent
combining the organosilicon compound treated metallosilicate with water and
then drying the catalyst
repeating the steps a) and b) above
calcining the catalyst in an oxygen containing atmosphere sufficient to remove
the organic material and deposit siliceous matter on the metallosilicate.
wherein in said process calcining step d) is not repeated after each of step a) +
b).
2. **(Original)** A process as claimed in claim 1 wherein said organosilicon compound is water insoluble.
3. **(Original)** A process as claimed in claim 2 wherein the said organosilicon compound is tetraalkoxy silane.
4. **(Original)** A process as claimed in claim 3 wherein the said tetraalkoxy silane is tetraethoxy silane.
5. **(Original)** A process as claimed in claim 1 wherein the said solvent is selected from lower aliphatic alcohols, C₅-C₁₀ saturated linear or cyclic hydrocarbons, C₆-C₁₀ aromatics or mixture thereof.
6. **(Original)** A process as claimed in claim 5 wherein the said solvent is a mixture of toluene and methanol.
7. **(Original)** A process as claimed in claim 1 wherein the concentration of the organosilicon compound in said solvent is in the range of 1 to 25 percent by weight.
8. **(Original)** A process as claimed in claim 1 wherein the said metallosilicate is treated with the organosilicon compound containing solution for 0.5 to 24 hours.
9. **(Original)** A process as claimed in claim 1 wherein the said solvent is recovered after metallosilicate is treated with the organosilicon compound containing solution.

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10. (PREVIOUSLY PRESENTED) A process as claimed in claim 1 wherein amount of said water is in the range of from 1 to 200 percent of the mass of the metallosilicate.
11. (PREVIOUSLY PRESENTED) A process as claimed in claim 1 wherein the said water combined metallosilicate composite is dried at a temperature of from 10 to 150°C.
12. (Original) A process as claimed in claim 1 wherein the said water combined metallosilicate composite is dried at a temperature of 50 to 150°C.
13. (Original) A process as claimed in claim 11 wherein the said water combined metallosilicate composite is dried at a temperature of from 80 to 130°C.
14. (PREVIOUSLY PRESENTED) A process as claimed in claim 11 wherein the said wet metallosilicate composite is dried for from 1 to 20 hours.
15. (Original) A process as claimed in claim 1 wherein the step a) and step b) are repeated more than once.
16. (Original) A process as claimed in claim 1 wherein the solvent recovered is reused.
17. (Original) A process as claimed claim 1 wherein the said calcination is carried out at a temperature in the range of from 160 to 800°C.
18. (Original) A process as claimed claim 17 wherein the said calcination is carried out at a temperature in the range of from 300 to 600°C.
19. (Original) A process as claimed claim 17 wherein the said calcination is carried out at a temperature in the range of from 400 to 550°C.
20. (Cancelled)
21. (PREVIOUSLY PRESENTED) A process for preparing a catalyst composite useful for alkylaromatic conversion, the said process comprising
 - a) contacting an intermediate pore metallosilicate with a water insoluble organosilicon compound in a solvent and then recovering the solvent
 - b) combining the organosilicon compound treated metallosilicate with water, the amount of water employed being in the range of from 1 to 200 percent of the mass of said metallosilicate;
 - c) drying the product from step b) at a temperature in the range of 10 to

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150°C;

- d) repeating the steps a), b) and c) above;
 - e) calcining the product in an oxygen containing atmosphere at a temperature in the range of 160 to 800°C sufficient to remove the organic material and deposit siliceous matter on the metallosilicate;
- wherein in said process calcining step e) is not repeated after each of step a) + b) + c).

22. **(PREVIOUSLY PRESENTED)** A process for preparing a catalyst composite said process comprising:

- a) contacting an intermediate pore metallosilicate with an organosilicon compound in a solvent for a specific duration and then recovering the solvent;
- b) drying the catalyst;
- c) repeating the steps a) and b) above;
- d) calcining the catalyst in an oxygen containing atmosphere sufficient to remove the organic material and deposit siliceous matter on the metallosilicate.

wherein in said process calcining step d) is not repeated after each of step a) + b).

23. **(Original)** A process as claimed in claim 22, wherein said organosilicon compound used is water soluble.

24. **(CURRENTLY AMENDED)** A process for preparing a catalyst composite said process comprising

- a) contacting an intermediate pore metallosilicate with an organosilicon compound in a solvent for a specific duration and then recovering the solvent
- b) drying the catalyst
- c) repeating the steps a) and b) above

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- d) calcining the catalyst in an oxygen containing atmosphere sufficient to remove the organic material and deposit siliceous matter on the metallosilicate;

wherein the said organosilicon compound is aminoalkyl trialkylsilane; and wherein said process calcining step d) is not repeated after each of step a) + b).

25. **(CURRENTLY AMENDED)** A process for preparing a catalyst composite said process comprising:

- a) contacting an intermediate pore metallosilicate with an organosilicon compound in a solvent for a specific duration and then recovering the solvent
- b) drying the catalyst
- c) repeating the steps a) and b) above
- d) calcining the catalyst in an oxygen containing atmosphere sufficient to remove the organic material and deposit siliceous matter on the metallosilicate;

wherein the said organosilicon compound is 3-aminopropyl triethoxysilane; and wherein said process calcining step d) is not repeated after each of step a) + b).

26. **(Original)** A process as claimed in claim 22 wherein the said solvent is selected from lower aliphatic alcohols, C₆-C₁₀ saturated linear or cyclic hydrocarbons, C₆-C₈ aromatics or mixture thereof and water.

27. **(Original)** A process as claimed in claim 22 wherein the said solvent is water.

28. **(Previously Amended)** A process as claimed in claim 22 wherein the concentration of the organosilicon compound in said solvent is in the range of 1 to 99% by weight.

29. **(Original)** A process as claimed in claim 22 wherein the said metallosilicate is treated with the organosilicon compound containing solution for 0.5 to 24 hours.

30. **(Original)** A process as claimed in claim 22 wherein the said solvent is recovered after metallosilicate is treated with the organosilicon compound containing

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solution.

31. (Original) A process as claimed claim 22 wherein the said organosilicon compound treated metallosilicate composite is dried at a temperature from 10 to 150°C.

32. (Original) A process as claimed in claim 22 wherein said water treated metallosilicate composite is dried for at least 1 hour.

33. (Original) A process as claimed in claim 22 wherein the step a) and step b) are repeated at least once.

34. (Original) A process as claimed in claim 22 wherein the solvent recovered from the silanation step is reused for further silanation.

35. (PREVIOUSLY PRESENTED) A process as claimed in claim 22 wherein the said calcination in said oxygen containing atmosphere is carried out at a temperature in the range 160 to 800°C.

36. (PREVIOUSLY PRESENTED) A process as claimed in claim 22 wherein the said metallosilicate comprises a member of the pentasil family.

37. (CURRENTLY AMENDED) A process for preparing a catalyst composite useful for alkylaromatic conversion, the said process comprising:

- a) contacting an intermediate pore metallosilicate with an organosilicon compound in a solvent for a specific duration and then recovering the solvent;
- b) combining the organosilicon compound treated metallosilicate with water and then drying the catalyst;
- c) repeating the steps a) and b) above;
- d) calcining the catalyst in an oxygen containing atmosphere sufficient to remove the organic material and deposit siliceous matter on the metallosilicate;

wherein the metallosilicate comprises a member of the pentasil family selected from the group consisting of: Ga-ZSM-5, Fe-ZSM-5, B-ZSM-5, Ga-Al-ZSM-5, Fe-Al-ZSM-5, B-Al-ZSM-5, and

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wherein said process calcining step d) is not repeated after each of step a) + b).

38. (PREVIOUSLY PRESENTED) A process as claimed in claim 37 wherein said metallosilicate is Ga-Al-ZSM-5 having silicon to aluminium ratio in the range of 150 to 600 and silicon to gallium ratio is in the range of 500 to 2000.

39. (CURRENTLY AMENDED) A process for preparing a catalyst composite useful for alkylaromatic conversion, the said process comprising:

- a) contacting an intermediate pore metallosilicate with an organosilicon compound in a solvent for a specific duration and then recovering the solvent;
- b) combining the organosilicon compound treated metallosilicate with water and then drying the catalyst;
- c) repeating the steps a) and b) above;
- d) calcining the catalyst in an oxygen containing atmosphere sufficient to remove the organic material and deposit siliceous matter on the metallosilicate;

wherein said metallosilicate is Ga-Al-ZSM-5 having silicon to aluminium ratio in the range of 150 to 600 and silicon to gallium ratio is in the range of 500 to 2000;

and

wherein said process calcining step d) is not repeated after each of step a) + b).

40.-49. (Canceled)

50. (PREVIOUSLY PRESENTED) A process for preparing a composite comprising the said process comprising

- a) contacting an intermediate pore metallosilicate with a water soluble organosilicon compound in a solvent and then recovering the solvent;
- b) drying the product from step a) at a temperature in the range of 10 to 150°C;

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- c) repeating the steps a) and b) above; and
 - d) calcining the product in an oxygen containing atmosphere at a temperature in the range of 160 to 800°C sufficient to remove the organic material and deposit siliceous matter on the metallosilicate;
- wherein in said process calcining step d) is not repeated multiple times after each of steps a) + b).

- 51. (PREVIOUSLY PRESENTED) A process as claimed in claim 1 wherein amount of said water is in the range of from 2 to 100% of the mass of the metallosilicate.
- 52. (PREVIOUSLY PRESENTED) A process as claimed in claim 1 wherein amount of said water is in the range of from 5 to 90% of the mass of the metallosilicate.
- 53. (PREVIOUSLY PRESENTED) A process as claimed in claim 22 wherein the concentration of the organosilicon compound in said solvent is in the range of 2 to 50% by weight.
- 54. (PREVIOUSLY PRESENTED) A process as claimed in claim 22 wherein the concentration of the organosilicon compound in said solvent is in the range of 5 to 25% by weight.

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